

Power of ZN-twisted boundary condition ~Resurgence and Continuity~

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Quantum field theories on the circle-compactified spacetime are quite worth investigating in terms of finite-T physics, resurgence theory and volume independence. In particular, several evidences indicate that the compactified theories with ZN-twisted boundary condition maintain the vacuum structure of the original uncompactified theory. We discuss this property, called adiabatic continuity, and its implication on resurgence theory by looking into a couple of theories including CP^{N-1} model, Schwinger model, flag sigma model, and 4d QCD. The weapons we use in this talk include semiclassical analysis, 't Hooft anomaly matching, and lattice simulations.

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Session Classification: Invited talks